

ABSTRACT OF THE DISCLOSURE

A main memory and a higher-speed local memory are externally connected to a microprocessor. The entire load module is developed in the main memory. A part or all of the instruction codes in the load module developed in the main  
5 memory are stored in the local memory. A memory management unit for data converts a logical address of the entire load module into a physical address of the main memory. A memory management unit for instructions converts a logical address of the  
10 instruction code stored in the local memory into a physical address of the local memory. A CPU core gains the instruction code from the local memory at the time of execution of the instruction.